

Fig 465 wafer pattern ball sector valve PN 40, 25, 16



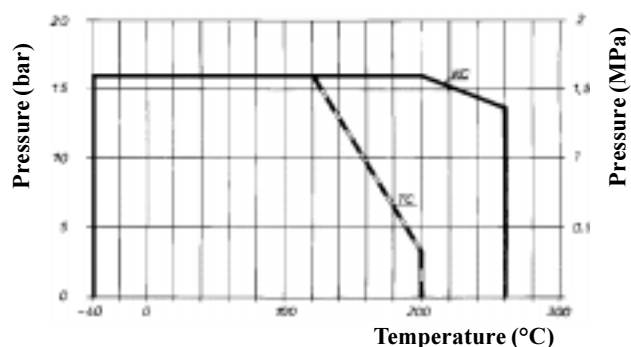
Application

The Högfors Fig 465 ball sector control valve is specially design for the control applications of different media as liquits, pulps and steam.

Nominal pressure	PN 40 DN	25 ... 40
	PN 25 DN	50 ... 80
	PN 16 DN	100 ... 200

Closing pressure difference max.16 bar

Pressure/temperature graph



Operating temperature: With stellite K-seat for steam 200°C max.

Design

The Högfors Fig 465 wafer pattern ball sector valve is a reduced bore valve manufactured in stainless steel throughout with a hard chromed ball sector and stellite seat (PTFE is available as an option). The V-port gives an excellent control characteristic which is intermediate between linear and equal percentage.

Nominal sizes DN 25 ... 200

Code number

465KC _ _ _	with manual lever
465KC _ _ _ Z	with bare shaft
465KC _ _ _ M	with gear

465TC _ _ _	with manual lever
465TC _ _ _ Z	with bare shaft
465TC _ _ _ M	with gear

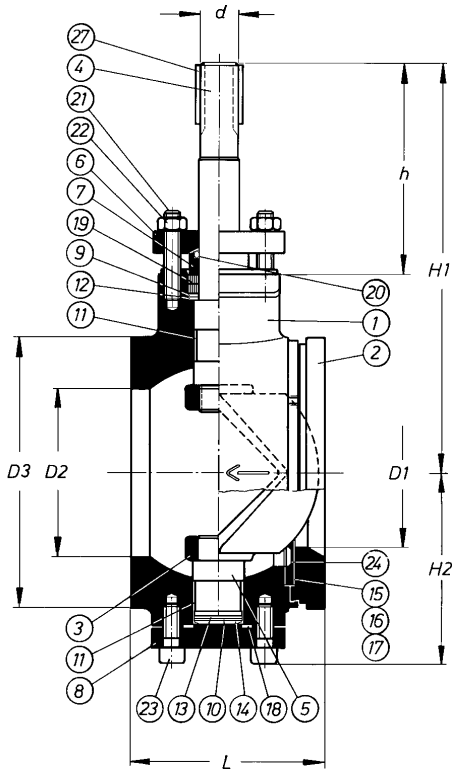
Seat

Stellite
Stellite
Stellite

PTFE
PTFE
PTFE

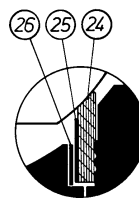
Control ball valve

Parts

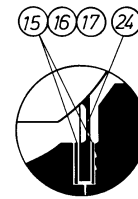


- | | |
|--------------------------|-----------------------|
| 1. Body | CF-8M |
| 2. End piece | CF-8M |
| 3. V-ball | CF-8M |
| 4. Upper shaft | W:no 4401 |
| 5. Lower shaft | W:no 4401 |
| 6. Gland | W:no 4401 |
| 7. Spacer ring | W:no 4401 |
| 8. Cover | W:no 4401 |
| 9. Thrust bearing ring | W:no 4401 |
| 10. Thrust bearing disc | W:no 4401 |
| 11. Shaft bearing | Pampus |
| 12. Upper thrust bearing | Pampus |
| 13. Lower thrust bearing | Pampus |
| 14. Cup spring | W:no 4401 |
| 15. Shim | SFS 5811 carbon fibre |
| 16. Shim | SFS 5811 carbon fibre |
| 17. Shim | SFS 5811 carbon fibre |
| 18. Cover gasket | SFS 5811 carbon fibre |
| 19. Packing | Graphite |
| 20. O-ring | EPDM |
| 21. Stud | |
| 22. Nut | |
| 23. Hexagon screw | |
| 24. T-seat | PTFE |
| 24. K-seat | Stellite |
| 25. Support ring | W:no 4401 |
| 26. Shim | SFS 5811 carbon fibre |
| 27. Key | Fe |

Seat alternatives



**PTFE
465TC**

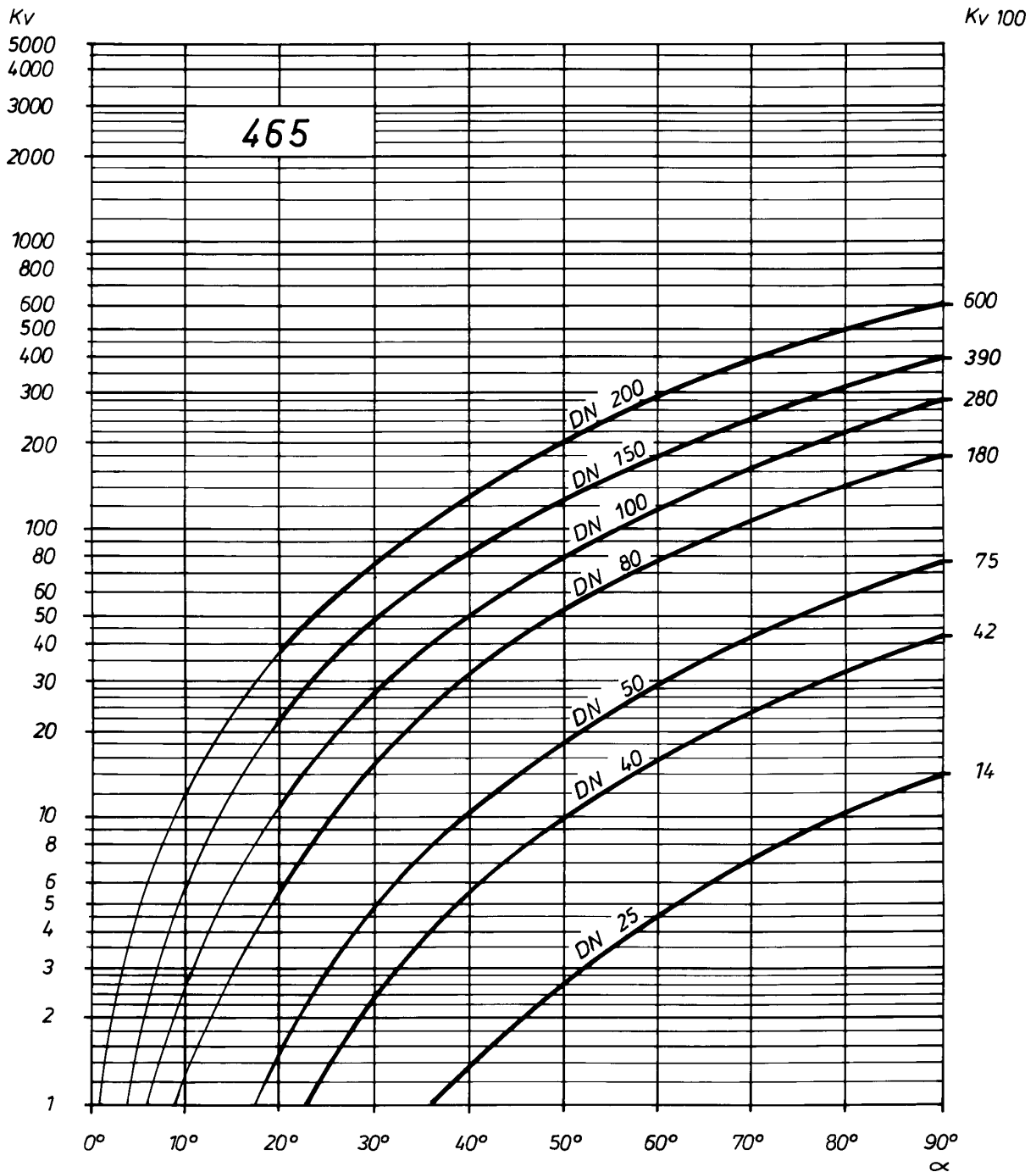


**Stellite
465KC**

Dimensions

DN	PN	L	D1	D2	D3	d	h	H1	H2	Weight kg
25	40	50	25	30	65	11	85	143	58	1,7
40	40	60	40	48	90	15	95	165	79	3,2
50	25	75	49	60	105	15	95	169	83	4,5
80	25	100	77	87	140	20	110	213	97	8,4
100	16	115	96	112	160	25	115	233	126	12,4
150	16	160	118	162	216	25	115	263	135	27,4
200	16	200	170	213	273	30	150	342	194	41,0

Regulation curves



WATER:

Volume flow:

$$Q = K_V \sqrt{\frac{\Delta p}{\rho}}$$

Flow velocity:

$$v = 354 \frac{Q}{DN^2}$$

- K_V = kv-value — Capacity factors
- DN = nominal valve size (mm)
- α = disc opening angle
- Q = volume flow m^3/h
- Δp = pressure difference bar
- ρ = density of liquid kg/dm^3
- v = flow velocity m/s